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EX NO. 10:**

**Create a data visualization using javascript**

AIM:

The aim is to create data visualizations, such as pie charts and bar graphs, for an inventory management system using JavaScript.

PROCEDURE:

Step 1: Set Up Your HTML File

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Inventory Management Visualization</title>

<style>

body {

font-family: Arial, sans-serif;

text-align: center;

margin: 50px;

}

canvas {

margin: 20px auto;

display: block;

}

</style>

</head>

<body>

<h1>Inventory Management System</h1>

<canvas id="pieChart" width="400" height="400"></canvas>

<canvas id="barChart" width="400" height="400"></canvas>

<script src="https://cdn.jsdelivr.net/npm/chart.js"></script>

<script src="script.js"></script>

</body>

</html>

Step 2: Create the JavaScript File for Charts

// script.js

// Data for the inventory

const inventoryData = {

labels: ['Electronics', 'Clothing', 'Home Appliances', 'Books', 'Toys'],

datasets: [

{

label: 'Items in Stock',

data: [200, 150, 100, 80, 50],

backgroundColor: [

'#FF6384',

'#36A2EB',

'#FFCE56',

'#4BC0C0',

'#9966FF'

]

}

]

};

// Creating the Pie Chart

const ctxPie = document.getElementById('pieChart').getContext('2d');

const pieChart = new Chart(ctxPie, {

type: 'pie',

data: inventoryData,

options: {

responsive: true,

plugins: {

title: {

display: true,

text: 'Inventory Distribution'

}

}

}

});

// Creating the Bar Chart

const ctxBar = document.getElementById('barChart').getContext('2d');

const barChart = new Chart(ctxBar, {

type: 'bar',

data: inventoryData,

options: {

responsive: true,

plugins: {

title: {

display: true,

text: 'Items in Stock by Category'

}

},

scales: {

y: {

beginAtZero: true

}

}

}

});

OUTPUT:  
